ENVIRONMENTAL CHEMISTS

Date of Report: February 4, 1993 Date Received: February , 1993 Project: 7238, Dept. of Public Health Re: Qual, PO #M27514

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS IN ACCORDANCE WITH **40 CFR PART 261**

Results Reported as mg/L (ppm)

Sample ID	M27514C (East Burning Table)	M27514D (Filter Bag Dust)	Regulatory <u>Level</u>
Analyte:			
Arsenic	<0.5	<0.5	5.0
Barium	<1.0	<1.0	100
Cadmium	<0.1	0.1	1.0
Chromium	3.9	1.3	5.0
${f Lead}$	<0.5	<0.5	5.0
Mercury	<0.2	<0.2	0.2
Selenium	<0.2	<0.2	1.0
Silver	<0.5	<0.5	5.0
Copper	<0.5	56	
Nickel	57	30	
Zinc	1.8	50	

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Quality Assurance

Sample#	<u>Blank</u>	M27514A (Sandblast) (<u>Duplicate</u>)	Regulatory Level
Analyte:			
Arsenic	<0.5	<0.5	5.0
Barium	<1.0	<1.0	100
Cadmium	<0.1	<0.1	1.0
Chromium	<0.5	<0.5	5.0
Lead	<0.5	<0.5	5.0
Mercury	<0.2	<0.2	0.2
Selenium	<0.2	<0.2	1.0
Silver	<0.5	<0.5	5.0
Copper	<0.5	3.3	
Nickel	<0.5	1.6	
Zinc	<0.5	지하는 경기를 받는 것이 되었다. 1.1 1 1 1 1 1 1 1	

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282

DUPLICATE COPY

3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

February 4, 1993

INVOICE # 93ACU0204-1

Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 7238, Dept. of Public Health Re: Qual, PO #M27514: Results of testing requested by Gerry Thompson, Project Leader and submitted on February, 1993.

FRIEDMAN & BRUYA, INC. ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

February 4, 1993

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on February , 1993 from Project 7238, Dept. of Public Health Re: Qual, PO #M27514.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Mark Z Perin Chemist

MZP/dp

Enclosures

ENVIRONMENTAL CHEMISTS

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RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS IN ACCORDANCE WITH **40 CFR PART 261** Results Reported as % Recovery

Quality Assurance

Sample#	M27514A (Sandblast) <u>Matrix Spike</u> % Recovery	M27514A (Sandblast) <u>Matrix Spike Duplicate</u> % Recovery	Spike <u>Level</u>
Analyte:			
Arsenic	102%	102%	10
Barium	100%	99%	5
Cadmium	95%	95%	5
Chromium	98%	98%	5
Lead	98%	98%	10
Mercury	70%	86%	10
Selenium	101%	100%	10
Silver	105%	100%	2
Copper	91%	90%	5
Nickel	95%	94%	10
Zinc	99%	98%	5

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RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TCLP METALS IN ACCORDANCE WITH 40 CFR PART 261

Results Reported as % Recovery Quality Assurance

Sample#	<u>Spike Blank</u>	Spike <u>Level</u>
Analyte:		
Arsenic	106%	10
Barium	100%	5 .
Cadmium	97%	5
Chromium	96%	5
Lead	100%	10
Mercury	98%	10
Selenium	102%	10
Silver	81%	2
Copper	95%	5
Nickel	100%	10
Zinc	103%	